

ABSTRACT

An electrolyte composition is formed containing ionic liquid having dicyanamide anions as anions. Examples of cations of the ionic liquid, may include, for 5 example, cations having quaternized nitrogen atom. This electrolyte composition may contain halogen-based redox pair. When the electrolyte composition is used as an electrolyte of a photoelectric conversion element, it is possible to achieve a good photoelectric conversion characteristic since it can realize both a high current characteristic and a high voltage characteristic.